

53883-325

4/3/2013

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number: 53883-325

Date of Issuance: APR 03 2013

NOTICE OF PESTICIDE:

[x] Registration
[ ] Reregistration
(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product: Quali-Pro® Prodoxaben 3.7 SC

Anne Turnbough, PhD
Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507-1041

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA sec. 3(c)(5) provided that you:

- 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Revise the EPA Reg. No. to 53883-325
3. Assure that the establishment number and net content are also added to the label.
4. Data requirements for both storage stability (830.6317) and corrosion characteristics (830.6320) have not been satisfied. It is recommended that the observation be made at 0,3,6,9 and 12 month intervals. This data must be submitted within eighteen months of the date of this letter. The results must be submitted to the Agency in electronic and hard copy format.
5. Submit one (1) copy of the revised final printed label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this notice, please contact Grant Rowland at (703) 347-0254 or at rowland.grant@epa.gov.

Kathryn V. Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

[Handwritten signature of Kathryn V. Montague]

Date: APR 03 2013

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# QUALI-PRO<sup>®</sup> PRODOXABEN 3.7 SC

A SELECTIVE COMBINATION PREEMERGENCE HERBICIDE FOR CONTROL OF GRASS AND BROADLEAF WEEDS IN ESTABLISHED TURFGRASSES (EXCLUDING GOLF COURSE PUTTING GREENS), LAWNS AND ORNAMENTALS, CONIFER AND HARDWOOD SEEDLING NURSERIES, NON-CROP AREAS INCLUDING RIGHTS-OF WAY FOR TRANSPORTATION SYSTEMS AND UTILITIES (INCLUDING ROADWAYS, ROADSIDES, RAILWAYS AND EQUIPMENT YARDS), FACILITIES INCLUDING SUBSTATIONS, TANK FARMS, PUMPING STATIONS, PARKING AND STORAGE AREAS, AND UNGRAZED FENCE ROWS, AND CHRISTMAS TREE FARMS.

ACTIVE INGREDIENT:	% BY WT
Prodiamine* (CAS No. 29091-21-2).....	23.3%
Isoxaben* (CAS No. 82558-50-7).....	15.5%
<b>OTHER INGREDIENTS:</b> .....	<b>61.2%</b>
<b>TOTAL:</b>	<b>100.0%</b>

\*Contains 2.2 pounds prodiamine per gallon and 1.5 pounds isoxaben per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**Manufactured for:**  
Control Solutions, Inc.  
5903 Genoa Red Bluff  
Pasadena, TX 77507

**ACCEPTED**  
 APR 03 2013  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 53883-325

EPA Reg. No. 53883-~~xxx~~ 325  
Net Contents: xxxx gal

EPA Est. No. [REDACTED]

FIRST AID	
<b>IF SWALLOWED:</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.
<b>IF IN EYES:</b>	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>IF INHALED:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>IF ON SKIN OR CLOTHING:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall <sup>®</sup> at (866) 897-8050 for emergency medical treatment information.	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

May be harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapor. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**WPS USES**

**Applicators, mixers, loaders, and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) - agricultural plant uses are covered - must wear:**

- Long-sleeved shirt and long pants
- Chemical Resistant gloves.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided with all of the PPE specified above for applicators and other handlers, and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- After handling this product immediately remove PPE, wash yourself thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Drift may result in reduced germination or emergence of non-target plants adjacent to treated area. Do not contaminate water when disposing of equipment wash water.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide

regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170.

This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils or, nitrile rubber ≥ 14 mils
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest or nurseries.

Applicators and handlers should wear:

- Long-sleeved shirt
- Long pants
- Chemical-resistant gloves
- Shoes with socks
- Protective eyewear.

Thoroughly wash face and hands with soap and water after exposure and before eating or smoking. Launder exposed clothing before reuse. Do not allow reentry to treated areas until sprays have dried.

**PRODUCT INFORMATION**

**Formulation and Mode of Action**

Quali-Pro® Prodoxaben 3.7 SC is a liquid herbicide containing the active ingredient, prodiamine, a member of the dinitroaniline family of herbicides and isoxaben, which has a cellulose biosynthesis inhibitor (CBI) mode of action. Each gallon contains 3.7 pounds active ingredient (2.2 pounds prodiamine per gallon plus 1.5 pounds isoxaben per gallon). Quali-Pro® Prodoxaben 3.7 SC is used for pre-emergent control of grasses and broadleaf weeds. The active ingredient inhibits mitotic processes in plants and controls susceptible weeds by preventing growth and development of newly germinated weeds. Weed control is most effective when Quali-Pro® Prodoxaben 3.7 SC is activated by at least 0.5 inches of rainfall or irrigation or shallow incorporation (1 to 2 inches for non-turf applications) before weed seeds germinate and within 14 days following application.

**Uses and Application**

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Apply Quali-Pro® Prodoxaben 3.7 SC for selective preemergence control of many grass and broadleaf weeds in the following areas: 1) established turfgrasses (excluding golf course putting greens); 2) lawns; 3) container, field-grown, and landscape ornamentals; 4) conifer and hardwood seedling nurseries; 5) non-crop areas including managed rights-of-way for transportation systems and utilities (such as roadways, roadsides, railways, and equipment yards); 6) non-crop facilities including substations, tank farms, pumping stations, parking and storage areas; 7) non-grazed fence rows; and 8) Christmas tree farms.

Apply Quali-Pro® Prodoxaben 3.7 SC in a minimum of 20 gallons/acre (0.5 gallons /1,000 sq ft) of carrier (water and or fluid fertilizer) using a calibrated, low-pressure sprayer with 50-mesh or coarser screens. A broadcast boom or handheld wand designed for herbicide or insecticide application will provide the best results. Select nozzle pressure and gallonage to provide complete coverage.

### **New Plantings, Replanting and Rotational Plantings**

Rotate nursery, landscape, or non-cropped land areas treated with Quali-Pro® Prodoxaben 3.7 SC only to ornamental species listed on this label for 1 (one) year following application unless the following test has shown species safety:

- Before planting a species not listed on this label, sow several test strips of an indicator plant such as wheat, sorghum or corn into the treated area. If the indicator plants germinate and grow normally to a height of 12 inches with normal root development, it is safe to plant.

In areas disturbed by new plantings or replanting of labeled species, it may be necessary to retreat exposed soil to maintain satisfactory weed control, but do not apply more than 87 fl. Oz./acre per year.

### **MIXING QUALI-PRO® PRODOXABEN 3.7 SC**

#### **When Used Alone**

Mix Quali-Pro® Prodoxaben 3.7 SC thoroughly in the spray tank to ensure uniform application. Steps to follow when mixing Quali-Pro® Prodoxaben 3.7 SC include:

1. Filling the spray tank 1/4 full with clean water only;
2. Starting the agitation system and checking to ensure it is working properly;
3. Maintaining vigorous agitation in the spray tank before and during the application to ensure a well-mixed spray suspension;
4. Adding a spray colorant with Quali-Pro® Prodoxaben 3.7 SC to mark treated areas and improve application accuracy by minimizing swath skips and overlaps; and
5. After use, thoroughly clean the sprayer by flushing the system with water containing a detergent.

Refer to the **PESTICIDE DISPOSAL** section of this label for waste disposal. Do not allow spray suspension to dry in the tank. If Quali-Pro® Prodoxaben 3.7 SC was mixed with fertilizer instead of water in the spray tank, the fertilizer aids in re-suspension of Quali-Pro® Prodoxaben 3.7 SC if agitation is disrupted. However, use the entire tank before stopping agitation.

#### **When Used in Tank Mixtures**

Quali-Pro® Prodoxaben 3.7 SC can be applied in tank-mixtures with certain other EPA-registered herbicides to provide a broader spectrum of weed control and/or to control emerged weeds. Refer to the specific directions for use for tank-mix partners, and refer to the label(s) of the individual tank-mix partner(s) for use rate, application timing, weeds controlled, and specific precautions and/or restrictions. Tank mixes are permitted only in States where the tank-mix partner(s) are registered for the application site and the turf and ornamental species listed. When using Quali-Pro® Prodoxaben 3.7 SC in a tank mixture with other pesticides, follow restrictions and precautions on the labels of the products used.

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When mixing Quali-Pro® Prodoxaben 3.7 SC with other components (carrier and partner pesticide products), allow products to completely dissolve between steps and be sure to maintain agitation throughout mixing and application. When products are to be tank-mixed with Quali-Pro® Prodoxaben 3.7 SC, add them to the spray tank in the following order:

1. Products packaged in water-soluble bags. Agitate the tank mixture. Allow the water-soluble bags to completely dissolve and the products to disperse before adding any other tank-mix partners.
2. Water-dispersible granules (WDG or WG formulations) and wettable powders (WP formulations). Add wettable powders to the tank as agitation continues. Allow the product to disperse completely before other products are added.
3. Spray adjuvants and spray markers. Read the adjuvant's label first and use only those adjuvants approved for application to turf and ornamentals.
4. Quali-Pro® Prodoxaben 3.7 SC, other flowable liquids (FL) or suspension concentrates (SC) must be added next.
5. Add emulsifiable concentrates (EC) last.

**Compatibility Testing**

Before mixing Quali-Pro® Prodoxaben 3.7 SC with other pesticides in the spray tank, test for compatibility by mixing all components (carrier and pesticide products) in an appropriate container in proportionate quantities. For example, 1 quart would be 1/100 the volume of a 25 gallons/acre spray rate. At 21 fl. oz./acre, the Quali-Pro® Prodoxaben 3.7 SC rate would be approximately 1 teaspoon to a quart of water (see Table 1).

**Table 1. Amount of Component to Add to One Quart of Spray Carrier (Using Carrier Volume of 25 gallons/acre)**

Component Formulations	Rate Per		Level Teaspoons
	Acre	1,000 sq ft	
Quali-Pro Prodoxaben 3.7 SC	21.0 fl. Oz.	0.5 fl. Oz.	1.0
Dry Tank-Mix Partners	1.0 lb	0.4 oz	1.5
Liquid Tank-Mix Partners	16 fl. Oz.	0.4 fl. Oz.	0.5

If components do not ball-up or form flakes, sludge, gels, oily films, or layers, then the mixture is compatible. Let the mixture stand for 15 minutes. Incompatibility will usually occur within 5 minutes after mixing. If components are not compatible, use a compatibility agent and rerun the test to determine if the mixture is suitable. If the components are still not compatible, do not tank mix.

**PRODUCT USE RESTRICTIONS**

- Do not graze or feed livestock forage cut from areas treated with Quali-Pro® Prodoxaben 3.7 SC.
- Do not apply Quali-Pro® Prodoxaben 3.7 SC to plants that will be consumed for food use.
- Do not blend Quali-Pro® Prodoxaben 3.7 SC onto dry fertilizer or any other granular material.
- In all cases, do not exceed a dosage of 2.5 lbs active ingredient/acre (87 fl. Oz/acre) (1.5 lbs Prodiamine and 1.0 lbs Isoxaben) per year on any use site and do not repeat an application sooner than 60 days after a previous application.
- **Chemigation:** Do not apply this product through any type of irrigation system. Do not apply aerially.
- Do not apply to golf course putting greens.
- **State Specific Restrictions:** The state of Arizona has not approved this product for use on agricultural commodities. If grown for commercial production, use on the following

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sites/crops is prohibited: container-grown field ornamentals, field-grown ornamentals, ornamental bulbs, and Christmas tree/conifer plantations.

**PRODUCT USE PRECAUTIONS**

- Follow all applicable directions, restrictions, and precautions on the labels of EPA-registered tank-mix partners.

**Treatment of Turfgrass or Ornamental Species Not Listed on the Label for Quali-Pro® Prodoxaben 3.7 SC:**

Although this label contains a large number of ornamental species, it is not possible to include all of the ornamental plants that may be encountered in nursery or landscape settings. Users who wish to use Quali-Pro Prodoxaben 3.7 SC are limited to non-food, ornamental plant species located strictly in labeled use sites. Users may determine the suitability for such use by treating a small area or small number of these plants at a specified rate. Prior to treatment of larger areas, the treated area/plants should be observed for any sign of herbicidal injury during 30 to 60 days of typical growing conditions.

**Chemigation:** Do not apply Quali-Pro® Prodoxaben 3.7 SC through any type of irrigation system.

Not for sale, use or distribution in the state of New York.

**Use rates and A.I. Load simplified:**

- 1 fl. oz. per 1,000 sq.ft. or 43.5 fl. oz. per acre will apply 0.75 lbs. of Prodiamine and 0.5 lb. of Isoxaben.
- 2.0 fl. oz. per 1,000 sq.ft. or 87 fl. oz. per acre will apply 1.5 lbs. of Prodiamine and 1.0 lb. of Isoxaben.

**WEEDS CONTROLLED IN ESTABLISHED TURF AND ORNAMENTALS**

When used as directed in this label for established turf and container, field grown and landscape ornamental plantings including Christmas tree farms, Quali-Pro® Prodoxaben 3.7 SC will control the grass and broadleaf weeds listed in **Table 2**.

**Table 2. Weeds Controlled by Quali-Pro® Prodoxaben 3.7 SC at the 1.0 fl. oz. per 1,000 sq.ft. or 43.5 fl. oz. per acre in Established Turf, Container, Field-grown and Landscape Ornamental Plantings Including Christmas Tree Farms**

Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crus-galli</i>
Betony, FLorida	<i>Stachys flordans</i>
Bluegrass, Annual <sup>1</sup>	<i>Poa annua</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, Common <sup>2</sup>	<i>Stellaria media</i>
Chickweed, Mouseear (from seed)	<i>Cerastium vulgatum</i>
Crabgrass, Large <sup>3</sup>	<i>Digitaria sanguinalis</i>
Crabgrass, Smooth <sup>3</sup>	<i>Digitaria ischaemum</i>
Crowfootgrass	<i>Dactyloctenium aegypticum</i>
Cupgrass, Woolly	<i>Eriochloa villosa</i>
Foxtails, Annual	<i>Setaria spp.</i>
Goosegrass <sup>5</sup>	<i>Eleusine indica</i>

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Henbit <sup>2</sup>	<i>Lamium amplexicaule</i>
Itchgrass	<i>Rottboellia cochinchinensis</i>
Jew, Wandering <sup>4†</sup>	<i>Zebrian pendula</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Knotweed <sup>2</sup>	<i>Polygonum</i> spp.
Kochia	<i>Kochia scoparia</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Lovegrass	<i>Eragrostis</i> spp.
Oxalis, Buttercup	<i>Oxalis pes-caprae</i>
Panicum, Texas	<i>Panicum texanum</i>
Panicum, Fall	<i>Panicum dichotomiflorum</i>
Panicum, Browntop	<i>Panicum fasciculatum</i>
Pigweed	<i>Amaranthus</i> spp.
Purslane, Common	<i>Portulaca oleracea</i>
Pusley, florida	<i>Richardia scabra</i>
Rescuegrass <sup>4</sup>	<i>Bromus catharticus</i>
Shepherdspurse <sup>2</sup>	<i>Capsella bursa-pastoris</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Speedwell, Persian	<i>Veronica persica</i>
Sprangletop	<i>Leptochloa</i> spp.
Spurge, Prostrate	<i>Chamaesyce humistrata</i>
Vetch, Common	<i>Vicia sativa</i>
Witchgrass	<i>Panicum capillare</i>
Woodsorrel, Yellow (from seed)	<i>Oxalis stricta</i>

† Not for use in California

<sup>1</sup> In those areas where *Poa annua* is a winter annual, apply Quali-Pro® Prodoxaben 3.7 SC in August or September to established, non-overseeded turf before *Poa annua* seeds germinate (see **Table 4** for maximum use rates). These timings are approximate. Consult State Extension Service for more specific timing for your area. Also see the section of this label **Poa annua Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV and TX Only)**.

<sup>2</sup> To control this weed, apply Quali-Pro® Prodoxaben 3.7 SC in late summer, fall, or winter before weeds germinate.

<sup>3</sup> **Fall Applications for Spring Crabgrass Control in Cool-Season Grasses:** In those areas where the ground freezes in the winter, Quali-Pro® Prodoxaben 3.7 SC can be applied in the fall at rates of 43.5 fl. oz./acre after soil temperatures fall below 50° F, but before the ground freezes. This application will control crabgrass the following spring.

<sup>4</sup> Suppression only.

<sup>5</sup> In many areas a single application of 43.5-87.0 fl.oz./acre of Quali-Pro® Prodoxaben 3.7 SC will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, weed control will be most effective by making an initial application of 43.5 fl. oz./acre followed by a second application 60-90 days later.

**Note: Do not exceed the maximum rate for the turf species listed in Table 4 (Maximum Application Rate of Quali-Pro® Prodoxaben 3.7 SC per Calendar Year by Turf Species).**

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**ADDITIONAL BROADLEAF WEEDS CONTROLLED OR SUPPRESSED AT THE 1.0 FL. OZ.  
PER 1,000 SQ.FT OR 43.5 FL. OZ. PER ACRE RATE**

<b>Common Name</b>	<b>Scientific Name</b>
aster, slender	<i>Symphotrichum divaricatum</i>
bursage, annual	<i>Ambrosia acanthicarpa</i>
burweed, lawn	<i>Soliva sessilis</i>
celery, wild	<i>Cyclosporum leptophyllum</i>
clover, white	<i>Trifolium repens</i>
cudweed, purple	<i>Gnaphalium purpureum</i>
fiddleneck, coast	<i>Amsinckia menziesii</i> var. <i>intermedia</i>
filaree, redstem	<i>Erodium cicutarium</i>
fleabane, blackleaved	<i>Conyza bonariensis</i>
fleabane, dwarf	<i>Conyza ramosissima</i>
groundcherry, lanceleaf	<i>Physalis angulata</i>
henbit	<i>Lamium amplexicaule</i>
horseweed	<i>Conyza canadensis</i>
knotweed, prostrate	<i>Polygonum aviculare</i>
lambsquarters, common	<i>Chenopodium album</i>
mallow, little	<i>Malva parviflora</i>
mustard, Indian	<i>Brassica juncea</i>
mustard, wild	<i>Sinapis arvensis</i>
nightshade, black	<i>Solanum nigrum</i>
pepperweed, Virginia	<i>Lepidium virginicum</i>
pineappleweed	<i>Matricaria discoidea</i>
plantain, slender	<i>Plantago heterophylla</i>
radish, wild	<i>Raphanus raphanistrum</i>
ragweed, common	<i>Ambrosia artemisiifolia</i>
rocket, London	<i>Sisymbrium irio</i>
shepherdspurse	<i>Capsella bursa-pastoris</i>

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sibara	<i>Sibara virginica</i>
smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
sowthistle, annual	<i>Sonchus oleraceus</i>
speedwell, purslane	<i>Veronica peregrina</i>
telegraphplant	<i>Heterotheca grandiflora</i>
thistle, Russian	<i>Salsola tragus</i>

**ADDITIONAL BROADLEAF WEEDS CONTROLLED AT 1.5 FL. OZ. PER 1,000 SQ. FT.  
OR 65 FL. OZ. PER ACRE**

<b>Common Name</b>	<b>Scientific Name</b>
aster, heath	<i>Symphyotrichum ericoides</i>
Bittercress, little	<i>Cardamine oligosperma</i>
bittercress, hairy	<i>Cardamine hirsuta</i>
brassbuttons, southern	<i>Cotula australis</i>
carrot, wild	<i>Daucus carota</i>
chamberbitter	<i>Phyllanthus urinaria</i>
chickweed, mouseear	<i>Cerastium fontanum</i> spp. <i>vulgare</i>
dandelion	<i>Taraxacum officinale</i>
eclipta	<i>Eclipta prostrata</i>
galinsoga, hairy	<i>Galinsoga quadriradiata</i>
geranium, Carolina	<i>Geranium carolinianum</i>
ladysthumb	<i>Polygonum persicaria</i>
lettuce, prickly	<i>Lactuca serriola</i>
mallow, common	<i>Malva neglecta</i>
marestail (see horseweed)	
Mayweed, chamomile	<i>Anthemis cotula</i>
morningglory, ivyleaf	<i>Ipomoea hederacea</i>
mustard, black	<i>Brassica nigra</i>
pennywort	<i>Hydrocotyle</i> spp.

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plantain, bracted	<i>Plantago aristata</i>
plantain, broadleaf	<i>Plantago major</i>
plantain, buckhorn	<i>Plantago lanceolata</i>
pokeweed, common	<i>Phytolacca americana</i>
rockpurslane, redmaids	<i>Calandrinia ciliata</i>
sida, prickly	<i>Sida spinosa</i>
plantain, broadleaf	<i>Plantago major</i>
plantain, buckhorn	<i>Plantago lanceolata</i>
pokeweed, common	<i>Phytolacca americana</i>
rockpurslane, redmaids	<i>Calandrinia ciliata</i>
sida, prickly	<i>Sida spinosa</i>
plantain, broadleaf	<i>Plantago major</i>
plantain, buckhorn	<i>Plantago lanceolata</i>
pokeweed, common	<i>Phytolacca americana</i>
rockpurslane, redmaids	<i>Calandrinia ciliata</i>
sida, prickly	<i>Sida spinosa</i>
sorrell, red	<i>Rumex acetosella</i>
speedwell, thymeleaf	<i>Veronica serpyllifolia</i>
spurge, hyssop	<i>Chamaesyce hyssopifolia</i>
spurge, spotted	<i>Chamaesyce maculata</i>
sweetclover, yellow	<i>Melilotus officinalis</i>
tansymustard, green	<i>Descurainia pinnata</i> spp. <i>brachycarpa</i>

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**ADDITIONAL BROADLEAF WEEDS CONTROLLED WHEN APPLIED AT 2.0 FL. OZ. PER 1,000 SQ. FT OR 87 FL. OZ. PER ACRE**

<b>Common Name</b>	<b>Scientific Name</b>
burclover, California	<i>Medicago polymorpha</i>
dogfennel	<i>Eupatorium capillifolium</i>
eveningprimrose	<i>Oenothera</i> spp.
fescue, rattail	<i>Vulpia myuros</i>
filaree, whitestem	<i>Erodium moschatum</i>
goosefoot, nettleleaf	<i>Chenopodium murale</i>
groundsel, common	<i>Senecio vulgaris</i>
jimsonweed	<i>Datura stramonium</i>
knotweed, silversheath	<i>Polygonum argyrocoleon</i>
kochia	<i>Kochia scoparia</i>
mullein, turkey	<i>Croton setigerus</i>
nettle, burning	<i>Urtica urens</i>
oxtongue, bristly	<i>Picris echioides</i>
pimpernel, scarlet	<i>Anagallis arvensis</i>
medic, black	<i>Medicago lupulina</i>
mullein, turkey	<i>Croton setigerus</i>
nettle, burning	<i>Urtica urens</i>
oxtongue, bristly	<i>Picris echioides</i>
pimpernel, scarlet	<i>Anagallis arvensis</i>
sowthistle, spiny	<i>Sonchus asper</i>
spurge, petty	<i>Euphorbia peplus</i>
sunflower	<i>Helianthus</i> spp.
swinecress	<i>Coronopus didymus</i>
thistle, musk	<i>Carduus nutans</i>
willoweed, panicle	<i>Epilobium brachycarpum</i>
woodsorrel, creeping	<i>Oxalis corniculata</i>

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**WEEDS PARTIALLY CONTROLLED OR SUPPRESSED WHEN APPLIED AT 2.0 FL. OZ. PER 1,000 SQ. FT OR 87 FL. OZ. PER ACRE**

Common Name	Scientific Name
bindweed, field	<i>Convolvulus arvensis</i>
dock, curly	<i>Rumex crispus</i>
mallow, Venice	<i>Hibiscus trionum</i>
milkweed, honeyvine	<i>Cynanchum laeve</i>
morningglory, tall	<i>Ipomoea purpurea</i>

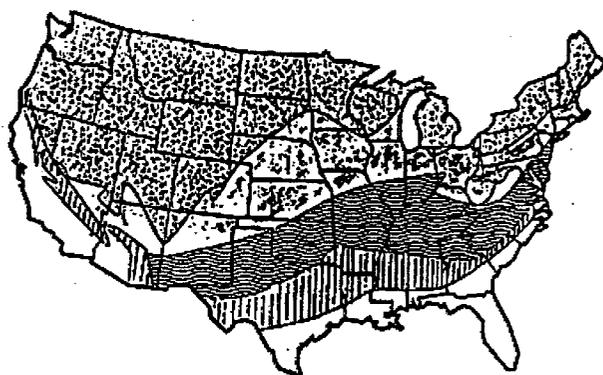
**SPECIFIC USE DIRECTIONS - ESTABLISHED TURF**

**Product Information**

Quali-Pro® Prodoxaben 3.7 SC is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turfgrasses including golf courses (excluding putting greens), lawns and sod nurseries. The maximum amount of Quali-Pro® Prodoxaben 3.7 SC that can be applied per year is given for each turfgrass species in **Table 4** of this label.

For optimum weed control, activate Quali-Pro® Prodoxaben 3.7 SC with at least 0.5 inches of rainfall or irrigation before weed seeds germinate and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

**Crabgrass Seed Germination Dates**



**Approximate Date**

-  After May 30
-  After May 10
-  After April 20
-  After March 20
-  January 1 to March 20

**Timing and Method of Application to Turfgrass**

Apply Quali-Pro® Prodoxaben 3.7 SC as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made before target weeds germinate because Quali-Pro® Prodoxaben 3.7 SC will not control weeds that have already emerged. Apply Quali-Pro® Prodoxaben 3.7 SC in a minimum of 20 gallons/acre (0.5 gallons/1,000 sq ft) of carrier (water and/or fluid fertilizer) using a calibrated, low-pressure sprayer with 50-mesh or coarser screens. A broadcast boom or handheld wand designed for herbicide or insecticide application will provide the best results. Select nozzle pressure and gallonage to provide complete coverage.

The amount of Quali-Pro® Prodoxaben 3.7 SC to apply depends upon the length of residual

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weed control desired (the higher the application rate, the longer the control), the turf species, and the maximum amount which can be applied to the turf species per calendar year. Specific information is provided in **Table 3** and **Table 4**.

**Table 3. Length of Crabgrass Control\* With Quali-Pro® Prodoxaben 3.7 SC**

**Note:** Length of control varies by region. This is an average:

0.5 fl. oz. per 1,000 sq.ft. or 21.75 fl. oz./acre - up to 3 months control of crabgrass.

0.75 fl. oz. per 1,000 sq.ft or 32.6 fl. oz./acre - up to 4 months control of crabgrass.

1.0 Fl. oz. per 1,000 sq.ft or 43.5 fl.oz./acre - up to 6 months control of crabgrass.

1.3 fl. oz. per 1,000 sq.ft. or 56.5 fl. oz./acre- up to 8 months control of crabgrass.

**Dosage**

Quali-Pro® Prodoxaben 3.7 SC can be safely applied to the turfgrass species listed in **Table 4**. Do not exceed the highest rate listed for each species in a calendar year as injury can occur.

**Table 4. Maximum Application Rate of Quali-Pro® Prodoxaben 3.7 SC per Calendar Year by Turf Species**

Turf Species	Fl. Oz. Product/Acre <sup>1</sup>	fl. Oz. Product/1,000 sq ft <sup>1</sup>
Bermudagrass <sup>2</sup> Bahigrass Centipedegrass Kikuyugrass Seashore Paspalum St. Augustinegrass <sup>3</sup> Tall Fescue (including turf-type) Zoysiagrass	38-87	0.87-2.0
Buffalograss Kentucky Bluegrass Perennial Ryegrass	18-54	0.41-1.2
Fine Fescue	18-43	0.41-1.0
Creeping Bentgrass (0.5 inch or more in height <sup>4</sup> )	18-38	0.41-0.87

<sup>1</sup> Quali-Pro® Prodoxaben 3.7 SC can be applied more than once per year as long as the total amount applied is not greater than the maximum application rate for each turf species. All applications must be made before weed seeds germinate.

<sup>2</sup> Quali-Pro® Prodoxaben 3.7 SC can be used on newly sprigged or plugged bermudagrass at rates not to exceed 30.7 fl. oz./acre (0.7 oz./1,000 sq ft). Newly sprigged or plugged bermudagrass stolon rooting can be temporarily inhibited.

<sup>3</sup> Use an initial rate of 29-58 fl. oz./acre per application.

<sup>4</sup> To avoid grass injury, do not apply Quali-Pro® Prodoxaben 3.7 SC to creeping bentgrass mowed at less than 0.5 inch in height.

**When to Apply Quali-Pro® Prodoxaben 3.7 SC after Overseeding Turf**

Injury to desirable seedlings is likely if Quali-Pro® Prodoxaben 3.7 SC is applied before the

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secondary roots of seedlings are in the second inch of soil, not thatch plus soil. To reduce the potential to injure overseeded turf, wait 60 days after seeding or until after the second mowing, whichever is longer, before applying Quali-Pro® Prodoxaben 3.7 SC.

**When to Overseed After Application - All States**

Quali-Pro® Prodoxaben 3.7 SC will inhibit the development of turfgrass species overseeded too soon after application. Follow rates and intervals in **Table 5** for best overseeding/reseeding results.

**Table 5. Waiting Interval before Overseeding Perennial Ryegrass Following Application of Quali-Pro® Prodoxaben 3.7 SC**

Amount of Quali-Pro® Prodoxaben 3.7 SC FL. Oz. Product/Acre	Interval (Months Before Overseeding)*		
	North	Transition	South
29	4	4	4
38	5	4	4
43	6	5	5
47	---	6	6
56	---	7	7
65	---	---	9
76	---	---	10
87	---	---	12

\* In AZ, CA, NV, and TX the overseeding interval can be shorter in established bermudagrass that has been overseeded with perennial ryegrass. See the next section for additional information.

**Poa Annua Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only):** Use on golf courses (excluding golf course putting greens), lawns, and sod nurseries when overseeding with perennial rye grass. (Minimum seeding rate of 350 lbs/acre).

**Table 6. Amount of Quali-Pro® Prodoxaben 3.7 SC to Apply to Bermudagrass Overseeded with Perennial Ryegrass**

Amount to Apply	When to Apply	Expected Control	Use Precautions
21.7- 38 Fl.Oz./acre *	6-8 weeks before ryegrass overseeding  <b>Second application:</b> 4-8 weeks after overseeding or when perennial ryegrass roots are in the second inch of soil	1 application for 70% or greater control of <i>Poa annua</i>  Second application can enhance control	<ul style="list-style-type: none"> <li>• Some seedling mortality and temporary reduction in root growth of new seedlings can occur.</li> <li>• To reduce the potential for seedling mortality, maintain a moist seedbed with light, frequent irrigation.</li> <li>• Make no more than 2 applications per year for this use, and do not exceed a total of 48 fl. oz./acre (1.38)</li> </ul>

			<p>pounds active ingredient/acre) per year.</p> <ul style="list-style-type: none"> <li>• Do not make a second application if any injury to the ryegrass is observed after the first application.</li> <li>• Do not make a second application unless the product was first applied before overseeding.</li> </ul>
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\* The amount of Quali-Pro® Prodoxaben 3.7 SC to apply depends upon: the length of residual control desired (the higher the application rate, the longer the control). **Note:** The higher the rate, the greater the potential for seedling mortality.

**USE RESTRICTIONS - Turfgrass: Golf Courses (excluding golf course putting greens), Lawns, and Sod Nurseries**

- Do not apply Quali-Pro® Prodoxaben 3.7 SC to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.
- Do not cut (harvest) treated sod before 90 days after application. To avoid turfgrass injury, do not apply to newly set sod until the sod has rooted and exposed edges have filled in.
- **Do not apply Quali-Pro® Prodoxaben 3.7 SC to golf course putting greens.**
- Do not apply Quali-Pro® Prodoxaben 3.7 SC to turf grass grown for seed.

**USE PRECAUTIONS - Turfgrass: Golf Courses (excluding golf course putting greens), Lawns, and Sod Nurseries**

- To avoid turfgrass injury, do not apply Quali-Pro® Prodoxaben 3.7 SC to turf stressed by conditions such as drought, low fertility, or pest damage.
- Disturbing the herbicide barrier with cultural practices such as disking can result in reduced weed control.
- If the depth of the creeping bentgrass root system becomes shallow and root tips contact prodiamine-treated soil, new root formation can be inhibited. Mowing height can affect the depth of a plants root system. To avoid this do not apply Quali-Pro® Prodoxaben 3.7 SC to creeping bentgrass less than 0.5 inches in height.

**CONTAINER, FIELD-GROWN AND LANDSCAPE ORNAMENTAL PLANTINGS INCLUDING CHRISTMAS TREE FARMS**

**Product Information**

Apply Quali-Pro® Prodoxaben 3.7 SC to soil surfaces for preemergence control of many grass and broadleaf weeds around ornamental shrubs and trees, established perennial vegetation and wildflower plantings and Christmas tree farms. (See **Table 2** for a list of weeds controlled).

**Timing and Method of Application**

Quali-Pro® Prodoxaben 3.7 SC is a preemergence herbicide only and will not control emerged grass or broadleaf weeds. It works best when applied to soil that is free of clods, weeds and debris and is activated by at least 0.5 inches of irrigation or rainfall or shallow incorporation to a depth of 1 to 2 inches. Weed control is improved if Quali-Pro® Prodoxaben 3.7 SC is activated in the soil before weed seeds germinate and within 14 days after application. Apply Quali-Pro® Prodoxaben 3.7 SC to newly-transplanted and established ornamentals as a broadcast or over-the-top spray.

**Crop Tolerance**

Direct application of Quali-Pro® Prodoxaben 3.7 SC to rapidly growing tissue or buds can injure desirable plants. In the spring when buds are rapidly growing and expanding, over-the-top application of Quali-Pro® Prodoxaben 3.7 SC can injure new growth of desirable plants, however, these effects are temporary. To reduce the possibility of injury at this time, wait to apply Quali-Pro® Prodoxaben 3.7 SC over the top of newly emerged vegetation until it has hardened off, unless your experience indicates that the ornamental plant will not be injured by the over-the-top application. After application, immediately apply overhead irrigation to the foliage to wash Quali-Pro® Prodoxaben 3.7 SC from plant surfaces onto soil (watering the foliage of plants before application can improve the washing process).

**Table 7. Amount of Quali-Pro® Prodoxaben 3.7 SC to Apply to Container, Field Grown and Landscape Ornamental Plantings and Christmas Trees Farms**

Amount to Apply (Broadcast)*	When to Apply	Comments/Instructions
38-87 fl. oz./acre  or  0.9-2.0 fl. oz./1,000 sq ft	In fall or spring before weeds germinate or after weeds are removed.	<ul style="list-style-type: none"> <li>Use the higher rate for longer control.</li> <li>Quali-Pro® Prodoxaben 3.7 SC can be applied more than once per year as long as the total amount of product applied does not exceed 87 fl. oz./acre (2.5 lbs. active ingredient/acre) per year.</li> </ul>

\*NOTE: For band application, calculate amount per acre:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{broadcast rate} = \text{amount to apply/acre of field}$$

**Table 8. Equivalent Measurements for Quali-Pro® Prodoxaben 3.7 SC**

Fl. Oz./Acre	Fl. oz./1,000 sq ft	Approximate Equivalent - Tablespoons/1,000 sq ft
38	0.9	1.75
55	1.25	2.5
76	1.8	3.5
87	2.0	4.0

**Table 9. Application Sites and Instructions for Quali-Pro® Prodoxaben 3.7 SC Use on Container, Field Grown and Landscape Ornamental Plantings and Christmas Tree Farms**

Site	Application Instructions
Newly-Transplanted Container or Field Nursery Stock	<ul style="list-style-type: none"> <li>Do not apply until soil has settled around transplant and roots have formed.</li> <li>Water thoroughly before application.</li> <li>Apply after cuttings form roots and are established.</li> <li>To avoid inhibition of the tissue union, apply before budding/grafting or after buds/grafts have taken.</li> <li>Do not apply to pots less than six inches wide</li> </ul>
Established Container, Field	<ul style="list-style-type: none"> <li>Apply at any time as a broadcast, over-the-top, or</li> </ul>

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Nursery Stock, or Landscape Plants	directed spray.
Landscape (or Ornamental) Plantings	<ul style="list-style-type: none"> <li>• Apply as a broadcast, over-the-top, or as a directed spray.</li> <li>• Delay applications to newly transplanted ornamentals until soil has settled around transplants.</li> </ul>
Bare Ground Application for Container Placement	<ul style="list-style-type: none"> <li>• Apply to soil (including mulch, gravel, wood chips, or other permeable base) upon which containerized ornamentals are placed.</li> <li>• After Quali-Pro® Prodoxaben 3.7 SC is applied, perform shallow cultivation or hand weeding only, to avoid disturbing the herbicide barrier.</li> </ul>
In Shadehouses and Uncovered Polyhouses	<ul style="list-style-type: none"> <li>• After Quali-Pro® Prodoxaben 3.7 SC is applied, uncovered polyhouses must remain open for at least 21 days and ornamentals must receive 2 irrigations totaling at least 0.5 inches of water before covering.</li> </ul>
Ornamental Bulbs (Grown for Commercial Production is prohibited in California and Arizona).	<ul style="list-style-type: none"> <li>• Quali-Pro® Prodoxaben 3.7 SC can be applied to bulbs. Apply before bulbs emerge. Do not apply after emergence.</li> </ul>

**Tank Mixtures for Use on Container, Field Grown and Landscape Ornamentals and Christmas Tree Farms**

Tank mix Quali-Pro® Prodoxaben 3.7 SC with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with Quali-Pro® Prodoxaben 3.7 SC are for use only in states where the tank-mix partner(s), application site and intended use pattern are registered.

Follow the label directions of the tank-mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before combining a tank-mix partner in the spray tank, test for compatibility as described in the **Compatibility Testing** section of this label.

**Table 10. Tank-Mix Partners for Quali-Pro® Prodoxaben 3.7 SC Use on Container, Field Grown and Landscape Ornamental Plantings and Christmas Tree Farms**

Product	Precautions/Instructions
Galigan® 2E, (use on conifers only)	<ul style="list-style-type: none"> <li>• Mix with Quali-Pro® Prodoxaben 3.7 SC for postemergence control of certain broadleaf weeds including malva and filaree.</li> </ul>
Princep®, MANA Parallel	<ul style="list-style-type: none"> <li>• See product labels for weed spectrum and tolerant ornamentals.</li> </ul>

<p>Glyphogan® (or other glyphosate-based products) and Finale®</p>	<ul style="list-style-type: none"> <li>• These nonselective tank mix herbicides control many emerged annual broadleaves and grasses.</li> <li>• Take extreme care to prevent tank mixtures with these partner products from contacting the foliage and stems of turfgrass, trees, shrubs, or other desirable vegetation because desirable vegetation could be severely injured or killed. Apply these tank mixtures as a directed spray and use a shield to prevent spray from contacting foliage of desirable plants.</li> <li>• Following instructions on the tank-mix partner's label, delay irrigation of the treated area to allow time for the herbicide to be absorbed by weed foliage.</li> </ul>
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**Tolerant Ornamental Species**

Quali-Pro® Prodoxaben 3.7 SC will not harm most trees, shrubs, vines and flowers. The species listed below in **Table 11** are tolerant to Quali-Pro® Prodoxaben 3.7 SC. Quali-Pro® Prodoxaben 3.7 SC can be used for application to these species. Quali-Pro® Prodoxaben 3.7 SC can be applied over the top of the listed species. The species that are not tolerant to Quali-Pro® Prodoxaben 3.7 SC when grown in containers are indicated.

When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to Quali-Pro® Prodoxaben 3.7 SC.

**Table 11. Tolerant Ornamental Species**

Scientific name	Common name
<i>Abelia grandiflora</i> †	Abelia: Sherwood
<i>Abies</i> spp.	Fir species** (Balsam, Fraser, Noble, etc.)
<i>Acer palmatum</i>	Japanese Maple
<i>Acer platanoides</i>	Norway Maple
<i>Achillea</i> spp.†	Yarrow: King Edward
<i>Actinidia chinensis</i> *	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile (African Lily)
<i>Agapanthus orientalis</i> †	
<i>Akebia quintata</i> †	Five-Leaf or Chocolate Vine
<i>Allium cernuum</i> †	Lady's Leek, Nodding Onion
<i>Anemone hybrida</i> †	Japanese Anemone
<i>Aquilegia</i> spp.†	Columbine
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita
<i>Arctotheca calendula</i>	Cape Weed
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Artemisia</i> spp.†	Wormwood; Silver Mound, Castle
<i>Aster</i> spp.†	Aster: Bonny Blue, Purple Dome
<i>Athyrium filix-femina</i> †	Lady Fern
<i>Begonia</i> spp.†	Fibrous Begonia: Hardy Grandis
<i>Berberis gladywensis</i>	Barberry
<i>Berberis julianae</i>	Wintergreen Barberry
<i>Berberis mentorensis</i>	Mentor Barberry
<i>Berberis thunbergii</i>	Japanese Barberry
<i>Berberis verruculosa</i>	Warty Barberry
<i>Bergenia cordifolia</i> †	

<i>Boltonia asteroides</i> <sup>†</sup>	Snowbank
<i>Bougainvillea</i> spp. <sup>†</sup>	Bougainvillea
<i>Buddleia davidii</i> <sup>†</sup>	Butterfly-Bush (Dwarf Blue); Royal Red
<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon citrinus</i> <sup>†</sup>	Crimson Bottlebrush
<i>Callistemon viminalis</i>	Weeping Bottlebrush
<i>Calluna vulgaris</i>	Scotch Heather
<i>Campanula carpatica</i> <sup>†</sup>	Tussock Bellflower; (White Clips)
<i>Campis X tagliabuana</i> <sup>†</sup>	Trumpet Creeper, Trumpet flower; Madame Galen
<i>Carpobrotus edulis</i>	Hottentot Fig (Ice Plant)
<i>Cassia artemisioides</i>	Feathery Cassia
<i>Ceanothus rigidus</i>	Wild Lilac
<i>Ceratostigma plumbaginoides</i> <sup>†</sup>	
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Chrysanthemum nipponicum</i> <sup>†</sup>	
<i>Cleyera japonica</i>	Cleyera
<i>Citrus</i> spp.*	Citrus species*
<i>Coreopsis</i> spp. <sup>†</sup>	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
<i>Cornus florida</i>	flowering Dogwood
<i>Cornus stolonifera</i>	American Dogwood
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>Cotoneaster buxifolius</i>	Cotoneaster
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster
<i>Cotoneaster microphyllus</i>	Rockspray Cotoneaster
<i>Crataegus</i> spp.	Hawthorne
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Crocasmia</i> spp. <sup>†</sup>	Lucifer
<i>Delosperma alba</i>	White Trailing Ice Plant
<i>Delphinium</i> spp. <sup>†</sup>	Larkspur; Blue Elf
<i>Dianthus deltoidea</i>	Dianthus, Maiden Pinks 'Zing'
<i>Dianthus gratianopolitanus</i> <sup>†</sup>	Cheddar Pink
<i>Dodonea viscosa</i>	Hop Bush
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>Euonymus japonica</i>	Japanese Spindle Tree (Evergreen Euonymus)
<i>Euonymus kiautschovicka</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>Forsythia suspensa</i> <sup>†</sup>	Weeping Forsythia
<i>Forsythia viridissima</i>	Greenstem Forsythia
<i>Gaillardia</i> spp. <sup>†</sup>	Gaillardia, Blanket flower: 'Goblin'
<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine
<i>Gaura</i> spp. <sup>†</sup>	Guara
<i>Gentiana dahurica</i> <sup>†</sup>	Gentian
<i>Geranium cinereum</i> <sup>†</sup>	Cranesbill
<i>Gladiolus</i> spp.**	Gladiolus species**

<i>Gypsophila repens</i> <sup>†</sup>	Baby's Breath
<i>Hedera helix</i>	English Ivy
<i>Helianthemum</i> spp. <sup>†</sup>	Sunrose
<i>Hemerocallis</i> spp. <sup>†</sup>	Daylily: Aztec Gold, Stella De Oro, Tender Love
<i>Heucherella</i> spp. <sup>†</sup>	Coral Bell; Bridget Bloom
<i>Hibiscus</i> **	Rose of Sharon**
<i>Hibiscus Rosa-sinensis</i> **	Chinese Hibiscus**
<i>Hosta plantaginea</i> <sup>†</sup>	Hosta, Plantain Lily (Fragrant)
<i>Hosta sieboldiana</i> <sup>†</sup>	Hosta, 'Searsucker'
<i>Houttuynia cordata</i> var. <i>variegata</i> <sup>†</sup>	
<i>Ilex cornuta</i> **	Chinese Holly**
<i>Ilex crenata</i>	Japanese Holly
<i>Ilex opaca</i>	American Holly
<i>Ilex pernyi</i>	Holly
<i>Ilex vomitoria</i>	Yaupon Holly
<i>Iris</i> spp.**	Iris species**
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juglans</i> spp.*	Walnut*
<i>Juniperus chinensis</i>	Chinese Juniper
<i>Juniperus conferta</i>	Shore Juniper
<i>Juniperus davuricae</i> <sup>†</sup>	Parsoni
<i>Juniperus horizontalis</i>	Creeping Juniper (except "prince of wales" variety)
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crape Myrtle
<i>Lagerstromia indica</i> and hybrids <sup>†</sup>	Crape Myrtle
<i>Lantana montevidensis</i> <sup>†</sup>	Weeping Lantana
Lavender spp. <sup>†</sup>	Lavender; Munstead
<i>Leontopodium alpinum</i> <sup>†</sup>	Edelweiss
<i>Ligustrum amurense</i>	Amur Privet
<i>Ligustrum japonicum</i>	Japanese Privet
<i>Ligustrum lucidum</i>	Glossy Privet (Wax-Leaf)
<i>Ligustrum sinense</i> <sup>†</sup>	Chinese Privet
<i>Lilium</i> spp. <sup>†</sup>	Lily
<i>Liriope muscari</i>	Liriope; Big Blue Lillyturf
<i>Liriope spicata</i> <sup>†</sup>	Liriope, creeping
<i>Lobelia cardinalis</i> <sup>†</sup>	Cardinal flower, Indian Pink
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>Lonicera tatarica</i>	Tatarian Honeysuckle
<i>Loropetalum chinense</i> <sup>†</sup>	Loropetalum; Burgundy
<i>Lythrum</i> spp. <sup>†</sup>	Loosestrife; Modern Pink
<i>Magnolia</i> spp.**	Magnolia species**
<i>Maleophora luteola</i>	Ice Plant
<i>Malus</i> spp.*	Crabapple*
<i>Miscanthus sinensis</i> ** <sup>†</sup>	Yaku Jima**, Silberfeder**
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus</i> spp.**	Narcissus species**
<i>Nerium</i> spp.	Oleander

<i>Oenothera missourensis</i> <sup>†</sup>	Evening Primrose
<i>Olea europaea</i> *	Olive*
<i>Ophiopogon japonicus</i> **	Mondo Grass**
<i>Osmanthus heterophyllus</i> <sup>†</sup>	Osmanthus (False Holly): Gulf Tide
<i>Osteospermum fruticosum</i> <sup>†</sup>	Trailing African Daisy
<i>Oxydendrum arboreum</i>	Sourwood
<i>Paeonia suffruticosa</i> <sup>†</sup>	Tree Peony
<i>Pennisetum setaceum</i> ** <sup>†</sup>	Fountain Grass (Dwarf)**
<i>Perovskia atriplicifolia</i> <sup>†</sup>	
<i>Persea americana</i> *	Avocado*
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Physostegia virginiana</i> <sup>†</sup>	Dragonhead, False; Vivid
<i>Picea</i> spp. **	Spruce species** (Colorado Blue, Norway, etc.)
<i>Pieris japonica</i>	Japanese Andromeda; Lily-of-the-Valley Shrub
<i>Pinus brutia</i>	Calabrian Pine
<i>Pinus canariensis</i>	Canary Island Pine
<i>Pinus elliottii</i>	Slash Pine
<i>Pinus halepensis</i>	Aleppo Pine
<i>Pinus nigra</i>	Austrian Black Pine
<i>Pinus palustris</i>	Longleaf Pine
<i>Pinus radiata</i>	Monterey Pine
<i>Pinus strobus</i>	Eastern White Pine
<i>Pinus sylvestris</i>	Scotch Pine
<i>Pinus taeda</i>	Loblolly Pine
<i>Pinus thunbergiana</i>	Japanese Black Pine
<i>Pinus virginiana</i>	Virginia Pine
<i>Pistacia</i> spp.*	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>Pittosporum tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus</i> spp.*	Almond, Apricot, Nectarine, Peach, Plum and Prune*
<i>Pseudotsuga menziesii</i> **	Douglas Fir**
<i>Pyraecantha coccinea</i>	Firethorn Scarlet
<i>Pyraecantha fortuneana</i>	Firethorn
<i>Pyraecantha koidzumii</i>	Firethorn
<i>Pyrus</i> spp.	Pear spp. including Bradford
<i>Quercus rubra</i>	Oak species
<i>Quercus shumardii</i> <sup>†</sup>	Oak, Shumard's Red
<i>Raphiolepis indica</i>	Indian Hawthorne
<i>Raphiolepis umbellata</i> <sup>†</sup>	Yedda Hawthorne
<i>Rhododendron</i> spp. <sup>†</sup>	Rhododendrons, Azaleas (Except Carolina and roseum elegans variety rhododendron)
<i>Rosa banksiae</i>	Lady Bank's Rose
<i>Rudbeckia</i> spp. <sup>†</sup>	Black-Eyed Susan: Goldstrum
<i>Rumohra adiantiformis</i>	Leatherleaf Fern
<i>Santolina virens</i>	
<i>Saxifraga</i> spp. <sup>†</sup>	Saxifrage; Purple Dome

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<i>Scabiosa</i> spp. †	Pincushion flower
<i>Spiraea bumalda</i> †	Spirea: Anthony Waterer
<i>Syzygium paniculatum</i>	Japanese Boxcherry
<i>Taxus cuspidata</i>	Japanese Yew
<i>Taxus media</i> †	Yew
<i>Teucrium</i> spp. †	Germander
<i>Thalictrum dipterocarpum</i> †	Meadow Rue
<i>Thuja occidentalis</i>	American Arborvitae
<i>Trachelospermum asiaticum</i>	Star Jasmine
<i>Tsuga canadensis</i>	Canada Hemlock
<i>Tulipa</i> spp.	Tulip species
<i>Veronica</i> spp. †	Veronica, Speedwell
<i>Viburnum japonicum</i>	Japanese Viburnum
<i>Viburnum odoratissimum</i>	Sweet Viburnum
<i>Viburnum plicatum</i>	Japanese Snowball
<i>Viburnum rigidum</i>	Canary Island Viburnum
<i>Viburnum japonicum</i>	Japanese viburnum
<i>Viburnum suspensum</i> †	Arrowwood viburnum
<i>Viburnum tinus</i>	Laurustinus
<i>Viburnum trilobium</i>	Cranberry Bush
<i>Viburnum wrightii</i>	Leatherleaf Viburnum
<i>Vinca major</i>	Vinca
<i>Vinca minor</i>	Dwarf Periwinkle
<i>Vitis</i> spp.*	Grape*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet
<i>Yucca filamentosa</i>	Yucca, Adam's Needle

† Not for use in California

\*Do not use on food producing trees, vines, or plants

\*\*Not for use on container grown plants.

**Note:** Injury to certain ornamental plants has been observed following application of Quali-Pro® Prodoxaben 3.7 SC.

**Table 12. To avoid plant injury do not use this product for weed control in the following ornamental plant species:**

Scientific Name	Common Name
<i>Ajuga</i> spp.	Bugleweed or ajuga
<i>Brassica</i> spp.	mustard
<i>Echinacea purpurea</i>	purple coneflower
<i>Euonymus alatus 'Compacta'</i>	dwarf burning bush
<i>Euphorbia</i> spp.	spurge
<i>Hydrangea</i> spp.	hydrangea

<i>Iberis</i> spp.	candytuft
<i>Juniperus horizontalis</i> 'Prince of Wales'	Prince of Wales juniper
<i>Melaleuca quinquenervia</i>	cajeput tree
<i>Rhododendron caroliniaum</i>	Carolina rhododendron
<i>Rhododendron catawbiense</i> 'Roseum elegans'	roseum elegans rhododendron
<i>Sedum</i> spp.	stonecrop
<i>Yucca recurvifolia</i>	green yucca

**USE RESTRICTIONS - Container, Field-grown and Landscape Ornamental Plantings and Christmas Tree Farms**

- In all cases, do not exceed a dosage of 2.5 lbs active ingredient/acre (87 fl. Oz/acre) (1.5 lbs Prodiamine and 1.0 lbs Isoxaben) per year on any use site and do not repeat an application sooner than 60 days after a previous application. Do not apply Quali-Pro® Prodoxaben 3.7 SC to seedbeds, or seedling transplant beds. Only apply to established plantings.
- Do not apply to uprooted liners or cuttings that have been planted in pots for the first time.
- Do not apply to pots less than six inches wide
- Do not apply to ground covers until they are established and well rooted
- Do not apply to bedding plants or areas where bedding plants will be planted or transplanted within one year after application.
- Do not apply Quali-Pro Prodoxaben 3.7 SC to newly transplanted ornamentals, nursery stock, ground covers or ornamental bulbs. Delay application until soil has settled and roots have formed.
- Do not apply after emergence of ornamental bulbs. Ornamental Bulbs grown for commercial production is Restricted in California and Arizona

**USE PRECAUTIONS - Container, Field-grown and Landscape Ornamental Plantings and Christmas Tree Farms**

- Disturbing the herbicide barrier with cultural practices such as disking, harrowing and deep raking can result in reduced weed control.
- Applications of Quali-Pro Prodoxaben 3.7 SC over the top of plants with newly forming buds may cause injury. Possible plant injury may be avoided by application as a directed spray to the soil surface beneath ornamental plants.
- Not suggested for application to Gladiolus prior to emergence.

**VEGETATION MANAGEMENT**

**Product Information**

Apply Quali-Pro® Prodoxaben 3.7 SC to soil surfaces for preemergence control of many grass and broadleaf weeds in non-crop areas including ornamentals (does not include container or field grown ornamentals) or surrounding non-crop areas such as managed rights-of-way for transportation systems and utilities (including roadways, roadsides, railways, and equipment yards) and facilities including substations, tank farms, pumping stations, parking and storage

areas, and non-grazed fence rows. The best weed control occurs when the product is activated in the soil by 0.5 inch of irrigation or rainfall before weed seeds germinate and within 14 days after application.

**Timing and Method of Application**

Quali-Pro® Prodoxaben 3.7 SC is a preemergence herbicide only and will not control emerged grass or broadleaf weeds. It works best when applied to soil that is free of clods, weeds and debris and is activated by at least 0.5 inches of irrigation or rainfall or shallow incorporation to a depth of 1 to 2 inches. Weed control is improved if Quali-Pro® Prodoxaben 3.7 SC is activated in the soil before weed seeds germinate and within 14 days after application. Apply Quali-Pro® Prodoxaben 3.7 SC to newly-transplanted and established ornamentals as a broadcast or over-the-top spray.

**Crop Tolerance**

Direct application of Quali-Pro® Prodoxaben 3.7 SC to rapidly growing tissue or buds can injure desirable plants. In the spring when buds are rapidly growing and expanding, over-the-top application of Quali-Pro® Prodoxaben 3.7 SC can injure new growth of desirable plants, however, these effects are temporary. To reduce the possibility of injury at this time, wait to apply Quali-Pro® Prodoxaben 3.7 SC over the top of newly emerged vegetation until it has hardened off, unless your experience indicates that the ornamental plant will not be injured by the over-the-top application. After application, immediately apply overhead irrigation to the foliage to wash Quali-Pro® Prodoxaben 3.7 SC from plant surfaces onto soil (watering the foliage of plants before application can improve the washing process)

**Tank Mixtures for Use in Vegetation Management**

Tank mix Quali-Pro® Prodoxaben 3.7 SC with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with Quali-Pro® Prodoxaben 3.7 SC are for use only in states where the tank-mix partner(s), application site and intended use pattern are registered.

Follow the label directions of the tank-mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before combining a tank-mix partner in the spray tank, test for compatibility as described on this label.

**Table 13. Tank-Mix Partners for Quali-Pro® Prodoxaben 3.7 SC Use in Vegetation Management**

Product	Precautions/Instructions
Galigan 2E®, (use on conifers only)	<ul style="list-style-type: none"> <li>Mix with Quali-Pro® Prodoxaben 3.7 SC for postemergence control of certain broadleaf weeds including malva and filaree.</li> </ul>
Quali-Pro Isoxaben 75 WG, Princep®, MANA Parallel	<ul style="list-style-type: none"> <li>See product labels for weed spectrum and tolerant ornamentals.</li> </ul>
Glyphogan® (or other glyphosate-based products) and Finale®	<ul style="list-style-type: none"> <li>These nonselective tank mix herbicides control many emerged annual broadleaves and grasses.</li> <li>Take extreme care to prevent tank mixtures with these partner products from contacting the foliage and stems of turfgrass, trees, shrubs, or other desirable vegetation because desirable vegetation might be severely injured or killed. Apply these tank mixtures as a directed spray and use a shield to prevent spray from contacting foliage of desirable plants.</li> <li>Following instructions on the tank-mix partner's label, delay irrigation of the treated area to allow time for the</li> </ul>

	herbicide to be absorbed by weed foliage.
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**Tolerant Ornamental Species - Vegetation Management**

Quali-Pro® Prodoxaben 3.7 SC will not harm most trees, shrubs, vines and flowers. The species listed above in **Table 11** are tolerant to Quali-Pro® Prodoxaben 3.7 SC. Quali-Pro® Prodoxaben 3.7 SC can be used for application to these species. Quali-Pro® Prodoxaben 3.7 SC can be applied over the top of the listed species.

When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to Quali-Pro® Prodoxaben 3.7 SC.

**VEGETATION MANAGEMENT - NON-CROP AREAS**

**Product Information**

Apply Quali-Pro® Prodoxaben 3.7 SC to soil surfaces for preemergence control of many grass and broadleaf weeds in non-crop areas including ornamentals (does not include container or field grown ornamentals) and established perennials on or surrounding non-crop areas as directed in **Table 14**. The best weed control occurs when the product is activated in the soil by 0.5 inches of irrigation or rainfall before weed seeds germinate and within 14 days after application.

**Table 14. Amount of Quali-Pro® Prodoxaben 3.7 SC to Apply to Non-Crop Areas for Control of Weeds Listed in Table 2.**

Site	Application Rate	Timing	Comments/Instructions
Non-crop areas, including ornamentals, on or surrounding managed rights-of-way for transportation, systems and utilities (including roadways, roadsides, railways, and equipment yards); Facilities including substations, tank farms, pumping stations, parking and storage areas, and non-grazed fence rows.	38 – 87 fl. oz./acre or 0.9- 2.0 fl. oz./1,000 sq ft	Before weed seeds germinate	Use higher rate range for longer control. More than one application per year is permitted, but do not apply more than 87 fl. oz./acre (2.5 lbs. active/acre) per year.

**Tank Mixtures for Use in Non-Crop Areas**

Tank mix Quali-Pro® Prodoxaben 3.7 SC with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with Quali-Pro® Prodoxaben 3.7 SC are for use only in states where the tank-mix partner(s),

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application site and intended use pattern are registered.

Follow the label directions of the tank-mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before combining a tank-mix partner in the spray tank, test for compatibility as described on this label. See the **Compatibility Testing** section of this label.

For non-crop areas, tank mix Quali-Pro® Prodoxaben 3.7 SC with Glyphogan® (or other glyphosate-based products), Parazone 3SL® (or other paraquat-based products), Diuron 4L (or other diuron-based products), Oryzalin 4AS (or other oryzalin based products), Reward®, Predict®, Princep®, Vanquish®, Finale®, Garlon®, Krovar® I and II, Oust®, Arsenal®, Spike® and Telar®.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment.

**PESTICIDE STORAGE:** Store in original container in dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal instructions listed below.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### CONTAINER HANDLING:

**Nonrefillable Container (five gallons or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. If recycling is not available, puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.**

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for

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a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc election, the replacement of product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc.'s election, the replacement of product.

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4-03-2013